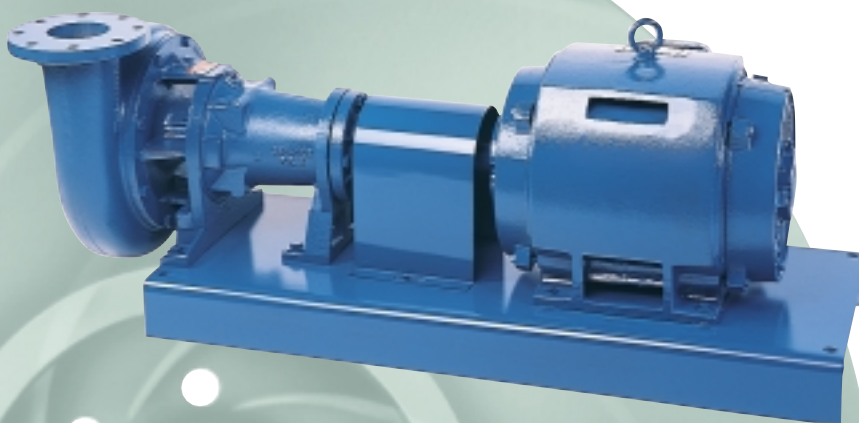


340A/360A Series Single Stage End Suction Pumps

- Capacities to 4500 G.P.M. (850 M³/HR)
- Heads to 370 Feet (78 Meters)
- Temperatures to 300°F (149°C)



Model 362A



Model 344A



Model 341A

ap AURORA®

PENTAIR PUMP GROUP

motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX

Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48

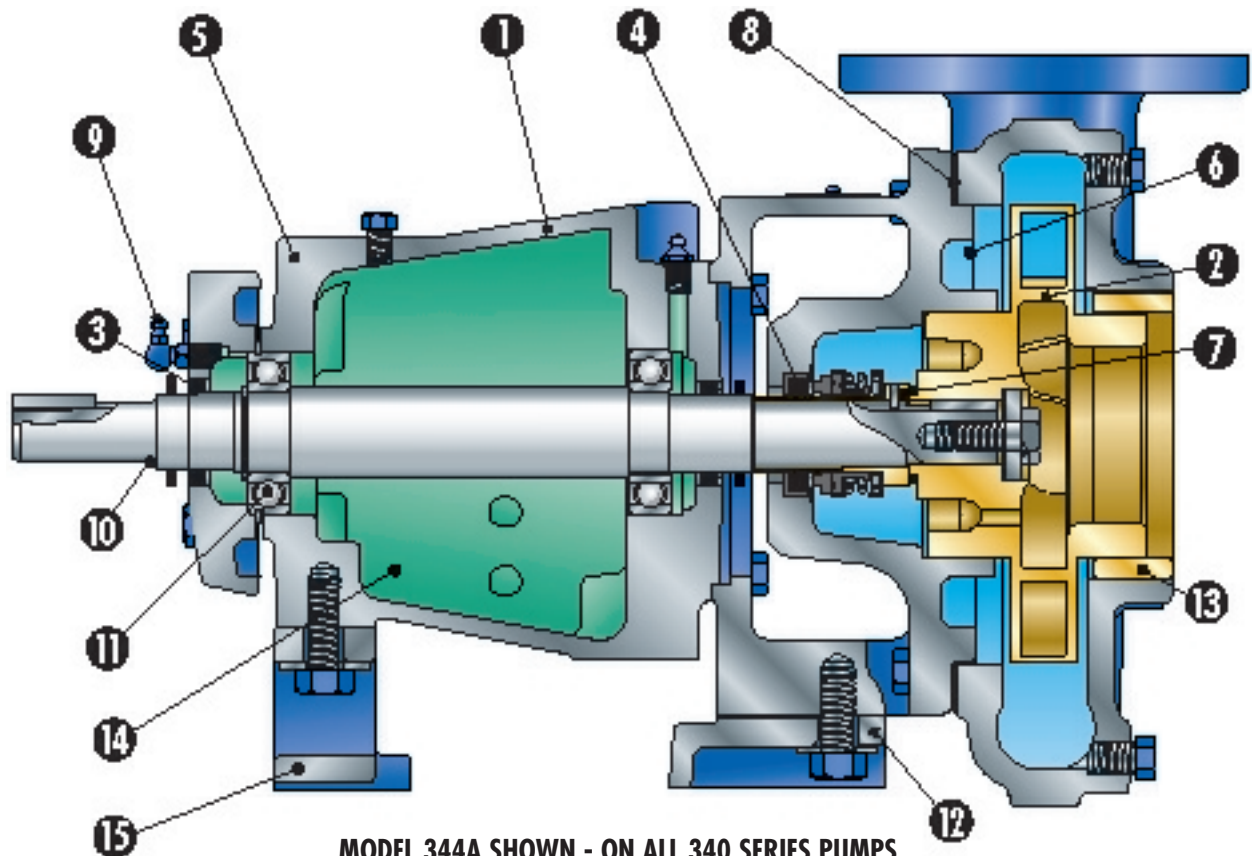
Demande de prix / e-mail : service-commercial@motralec.com

www.motralec.com

Aurora 340A/360A Pumps

Setting New Standards of Efficiency

Liquid handling requirements are much more involved than they were five years ago. The variety of liquids being handled has increased along with temperatures and pressures. Today's installations demand quiet, smooth running pumps with long life. Aurora Pump's 80 years of experience with design, sales and manufacturing of centrifugal pumps has led to the 340A/360A Series. These modern pumps with a clean, straightforward design were developed with maximum interchangeability in mind. Aurora's highly reliable 340A/360A pumps offer an economical solution to your liquid handling problems.



**MODEL 344A SHOWN - ON ALL 340 SERIES PUMPS
MECHANICAL SEALS ARE STANDARD**

Standard – 340A and 360A

- Discharge position No. 1
- Regreaseable bearings (Model 344A, 364A)
- Standard JM motor (Model 341A, 342A)
- Standard JP motor (Model 361A, 362A)
- Coupling guard (Model 344A, 364A)

Standard – 360A Only

- Interchangeable stuffing box
- Graphite impregnated acrylic packing

Optional – 340A and 360A

Standard 340A and 360A series pumps are designed to meet the requirements of most applications. However, to meet special services, a number of optional features have been made available. For services not handled by the features listed, refer to the factory.

- All iron construction
- 316 stainless steel sleeve
- Stainless steel shaft
- Impeller wearing rings
- Oil lubricated ball bearings (Model 344A, 364A)
- Sealed permanently lubricated ball bearings (power frames No. 1, 2 and 3)

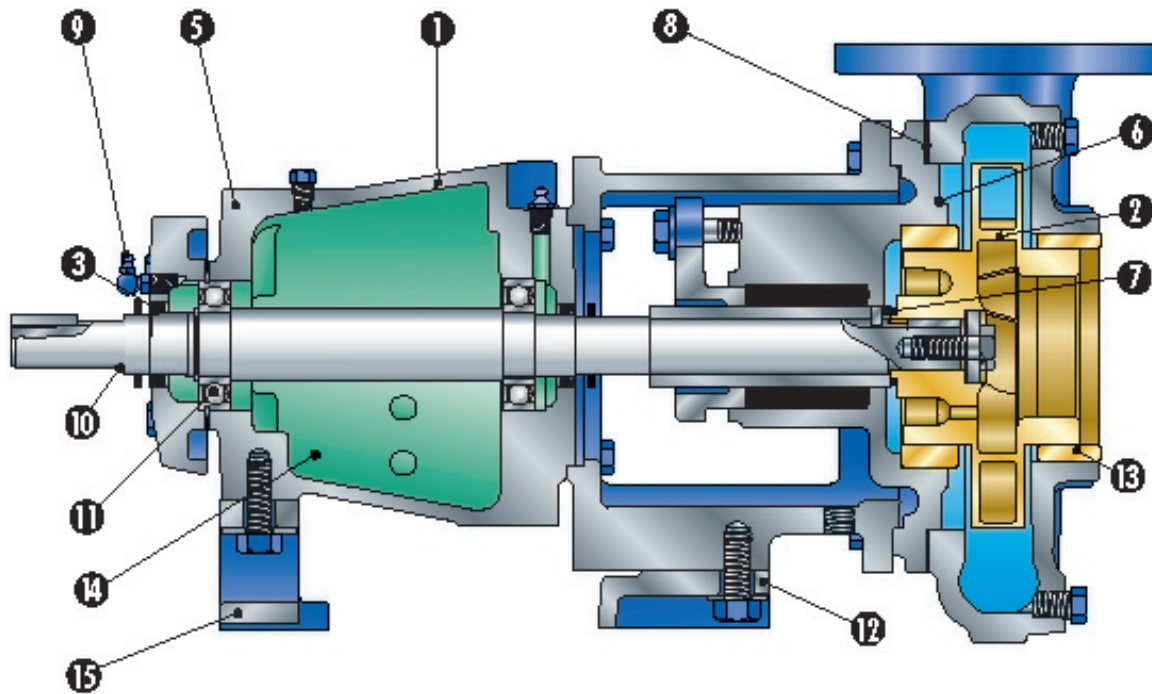
Alternate discharge positions No. 2, 3 and 4 (see pages 12 and 13)

- Fabricated stainless steel drip-rim bases (Model 344A, 364A)
- Formed steel bases (Model 344A, 364A)
- High temperature mechanical seal
- Variety of alternative constructions

Optional – 360A Only

- All bronze construction
- Hardened shaft sleeve (for packing)
- Various mechanical seal types
- Water jacketed stuffing box
- Semi-open impellers (Model 364A)
- Double row thrust bearings (Model 364A)
- Packing with lantern ring

Features



MODEL 364A SHOWN - ON ALL 360 SERIES PUMPS PACKING IS STANDARD, MECHANICAL SEALS ARE OPTIONAL

- 1 COMPUTER MACHINED major components with 360A degree registered fits to assure concentricity of all pump parts.
- 2 PRECISION CAST, DYNAMICALLY BALANCED, ENCLOSED IMPELLER is keyed to the shaft extension and secured by a capscrew and washer. Gaskets are used to prevent leakage to shaft end.
- 3 OIL SEALS and non-sparking Neoprene rotating slingers protect both bearings during pump operation and pump washdown.
- 4 MECHANICAL SEAL has hot water carbon against Ni-Resist face for optimum hot water performance. Long life is also assured with 303 stainless steel metal parts and "Buna-N" elastomer.
- 5 POWER FRAME provides heavy duty maximum interchangeability for flexible coupled applications.
- 6 HYDROSTATIC TEST of pumps at factory guarantees casting and seal integrity.
- 7 BRONZE SHAFT SLEEVE prevents shaft wear, is slip fit over the shaft, keylocked and extends the full length of seal box to eliminate corrosion of the shaft by the pumped liquid. This cancels the requirement for high cost, special stainless steel or alloy shafts.
- 8 BACK PULL-OUT design simplifies disassembly. The suction and discharge piping is not disturbed at disassembly.
- 9 LUBRICATION FITTINGS are conveniently located for quick accessibility and provides positive bearing lubrication. Oil lubrication optionally available.
- 10 CARBON STEEL SHAFT designed for minimum deflection, not to exceed .002" at the sealing faces at maximum load.
- 11 BEARINGS selected for 3 year minimum life at maximum load. Average bearing life 5 x minimum. Grease lube standard.
- 12 CLOSE COUPLED MOTORS in smaller frame sizes are supported off of the motor bracket for maximum rigidity.
- 13 CASE WEARING RING prevents wear on casing and is easily and inexpensively replaced. Impeller rings are available. Front case wearing rings are standard on all models and size pumps. Rear case wearing rings are standard only on 2" discharge and larger model 360A series pumps. Front impeller wearing rings are optional on all models and size pumps. Rear impeller wearing rings are optional only on 2" discharge and larger model 340A and 360A series pumps.
- 14 LARGE CAPACITY OIL RESERVOIR is provided on power frame Model 344A and 364A pumps for optional oil lube.
- 15 REAR SUPPORT FOOT provides support and simplifies coupling alignment. All supports are slotted to simplify back pull-out of power frame.

Material of Construction and Design Details

Material of Construction

| Pump Part | Standard Fitted | Bronze Fitted | All-Iron | *All-Bronze |
|--|---|-----------------------|-----------------------------|---|
| Casing | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Bronze ASTM B62 |
| Case Wearing Ring | Bronze ASTM B62 | Bronze ASTM B62 | Cast Iron ASTM A48 | Bronze ASTM B62 |
| Impeller | Cast Iron ASTM A48 | Bronze ASTM B584 | Cast Iron ASTM A48 | Bronze ASTM B584 |
| Motor Bracket | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Cast Iron ASTM A48 |
| Shaft | Steel AISI C1045 | Steel AISI C1045 | Steel AISI C1045 | Steel AISI C1045 |
| Sleeve | Bronze ASTM B62 | Bronze ASTM B62 | Stainless Steel AISI 316 | Bronze ASTM B62 |
| Power Frame (344A & 364A) | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Cast Iron ASTM A48 |
| Mechanical Seal 340A Series | 303 stainless steel metal parts, "Buna-N" elastomer parts, Ni-Resist seat and carbon washer | | | 303 stainless steel metal parts, viton elastomer, ceramic seat, and carbon washer |
| 360A Series (Optional) | | | | |
| Stuffing Box | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Cast Iron ASTM A48 | Bronze ASTM B62 |
| Packing (Standard) 360A Series Only | Interwoven, graphited fiber diagonally cut | | | |

* All Bronze optionally available in 361A and 364A pumps only.

Design Details

| Area | Description | Power Frame | | | |
|---------------|---|-------------|---------|---------|----------|
| | | 1 | 2 | 3 | 21 |
| Pump Shaft | Rotation—from driver end | CW | CW | CW | CW |
| | Diameter at impeller | 7/8 | 1-1/4 | 1-1/4 | 1-5/8-12 |
| | Diameter at shaft sleeve | 1 | 1-3/8 | 1-3/8 | 2-1/4 |
| | Diameter between bearings | 1-3/8 | 1-15/16 | 2-3/8 | 3-1/4 |
| | Diameter at coupling end | 7/8 | 1-1/8 | 1-1/8 | 2-3/8 |
| | Coupling key—square | 3/16 | 1/4 | 1/4 | 5/8 |
| | Max. deflection at seal face | .002 | .002 | .002 | .002 |
| Ball Bearings | Bearing (inboard radial) | 206K | 308K | 310K | 313 |
| | Bearing (outboard thrust) | 206KG | 308KG | 310KG | 5313 |
| | Bearing centers | 5-11/16 | 7-11/16 | 7-11/16 | 9-5/8 |
| | Bearing type | Ball | Ball | Ball | Ball |
| | Min B ₁₀ bearing life under maximum load | 3 years | 3 years | 3 years | 3 years |
| Sleeve | Packing size 360A series | 3/8 | 3/8 | 3/8 | 7/16 |
| | Outside diameter of sleeve 360A series | 1-1/2 | 1-7/8 | 1-7/8 | 2-1/2 |
| | Outside diameter of sleeve 340A series | 1-1/8 | 1-1/2 | 1-1/2 | N/A |

Design Details

340A Series

| Sealing Method | Temperature °F | |
|--------------------------|----------------|---------------|
| | Close Coupled | Frame Mounted |
| Standard Mechanical Seal | 225 | 225 |

360A Series

| Sealing Method | Temperature °F | |
|---|----------------|---------------|
| | Close Coupled | Frame Mounted |
| Standard Mechanical Seal | 225 | 225 |
| W/J Mechanical Seal* | 300 | 300 |
| Standard Packing | 225 | 225 |
| W/J Packing* | 275 | 275 |
| Packing . . . Suction lift requires lantern ring. * 7, 9 and 12 bore pumps only | | |
| 340A & 360A Series Case Working Pressure (all or any part can be suction pressure) 175 P.S.I. | | |
| Hydrostatic Test Pressure (Maximum) 265 P.S.I | | |

Limitations 340A & 360A Series – H.P.

| Speed-RPM | | 3500 | 1750 | 1150 |
|---------------|----------------|------|------|------|
| Close Coupled | O.D.P. | 60 | 50 | 30 |
| | T.E. & EX. PR. | 50 | 50 | 30 |
| Power Frame | 1 | 40 | 20 | 15 |
| | 2 & 3 | 125 | 75 | 40 |
| | 21 | N/A | 250 | 150 |

End suction products such as the flexible coupled horizontal pump seen below are used in offices and high rise buildings for internal environment control. End suction pumps for HVAC installation come in a variety of configurations including close coupled, flexible coupled, horizontal or vertical mounted units.



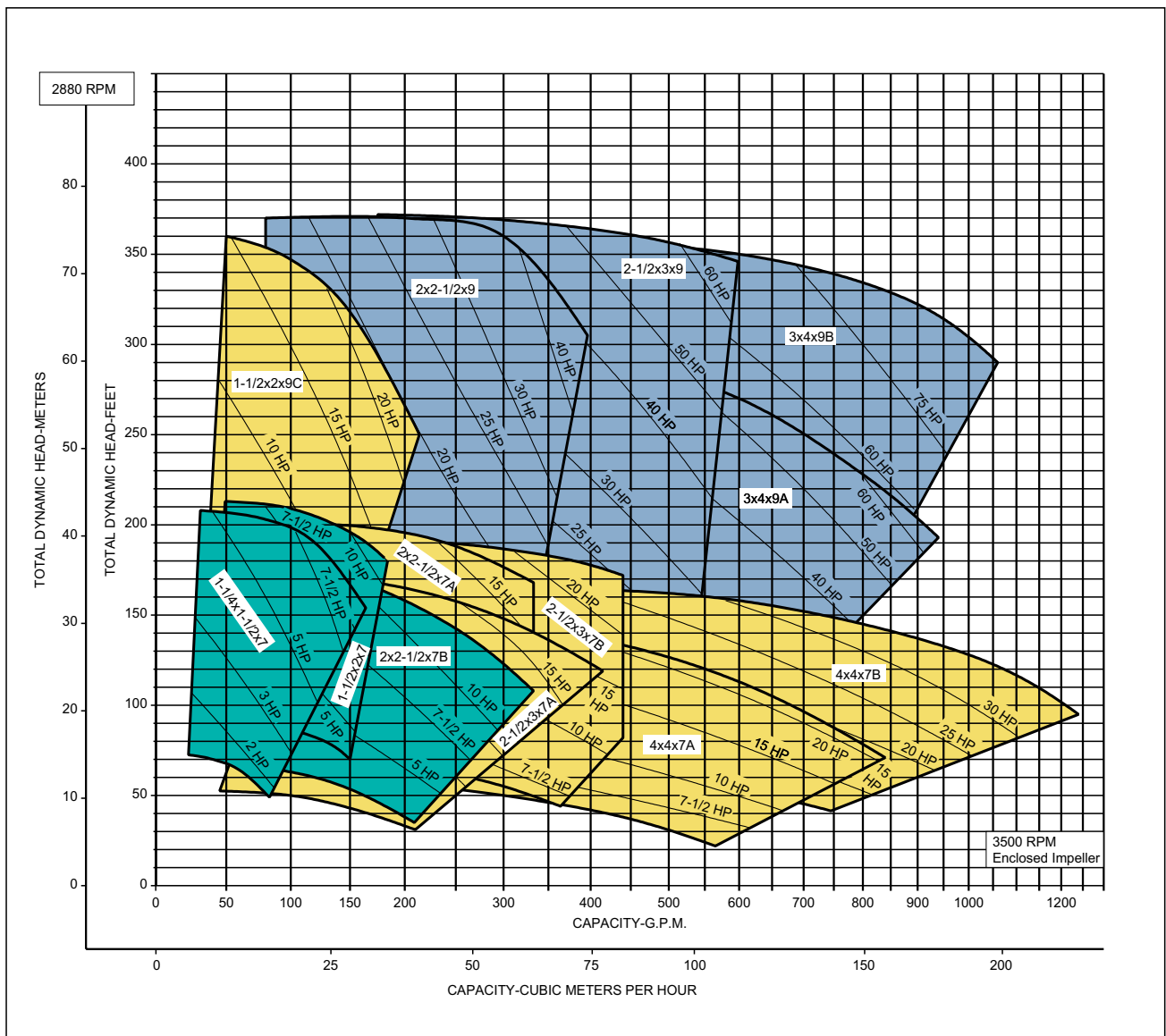
340 Range Charts

3500 RPM

INDIVIDUAL PERFORMANCE CURVES SHOULD BE CHECKED FOR FINAL SELECTION. FOR SELECTIONS NOT SHOWN ON THIS CHART PLEASE REFER TO THE FACTORY.

- POWER FRAME NO. 1
- POWER FRAME NO. 2
- POWER FRAME NO. 3

| | | | |
|-----------------------|---------------|-----------------|-----|
| MAXIMUM HORSEPOWER | CLOSE | OPEN DRIP PROOF | 60 |
| | COUPLED | TE & EX PR | 50 |
| | FRAME MOUNTED | | 100 |



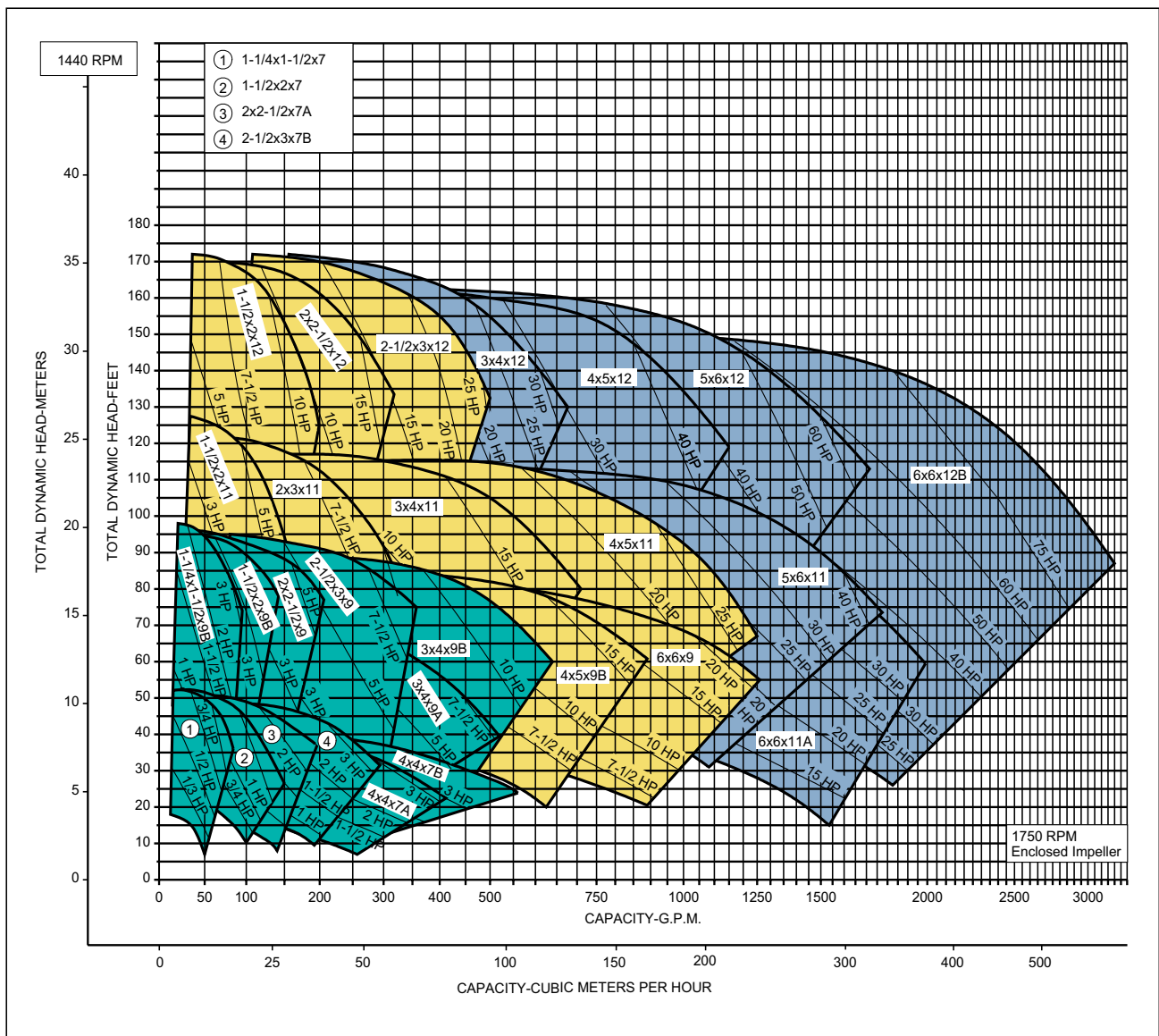
340 Range Charts

1750 RPM

INDIVIDUAL PERFORMANCE CURVES SHOULD BE CHECKED FOR FINAL SELECTION. FOR SELECTIONS NOT SHOWN ON THIS CHART PLEASE REFER TO THE FACTORY.

- POWER FRAME NO. 1
- POWER FRAME NO. 2
- POWER FRAME NO. 3

| | | | |
|--------------------|---------------|----------------------------|-----|
| MAXIMUM HORSEPOWER | CLOSE COUPLED | OPEN DRIP PROOF TE & EX PR | 50 |
| | FRAME MOUNTED | | 100 |



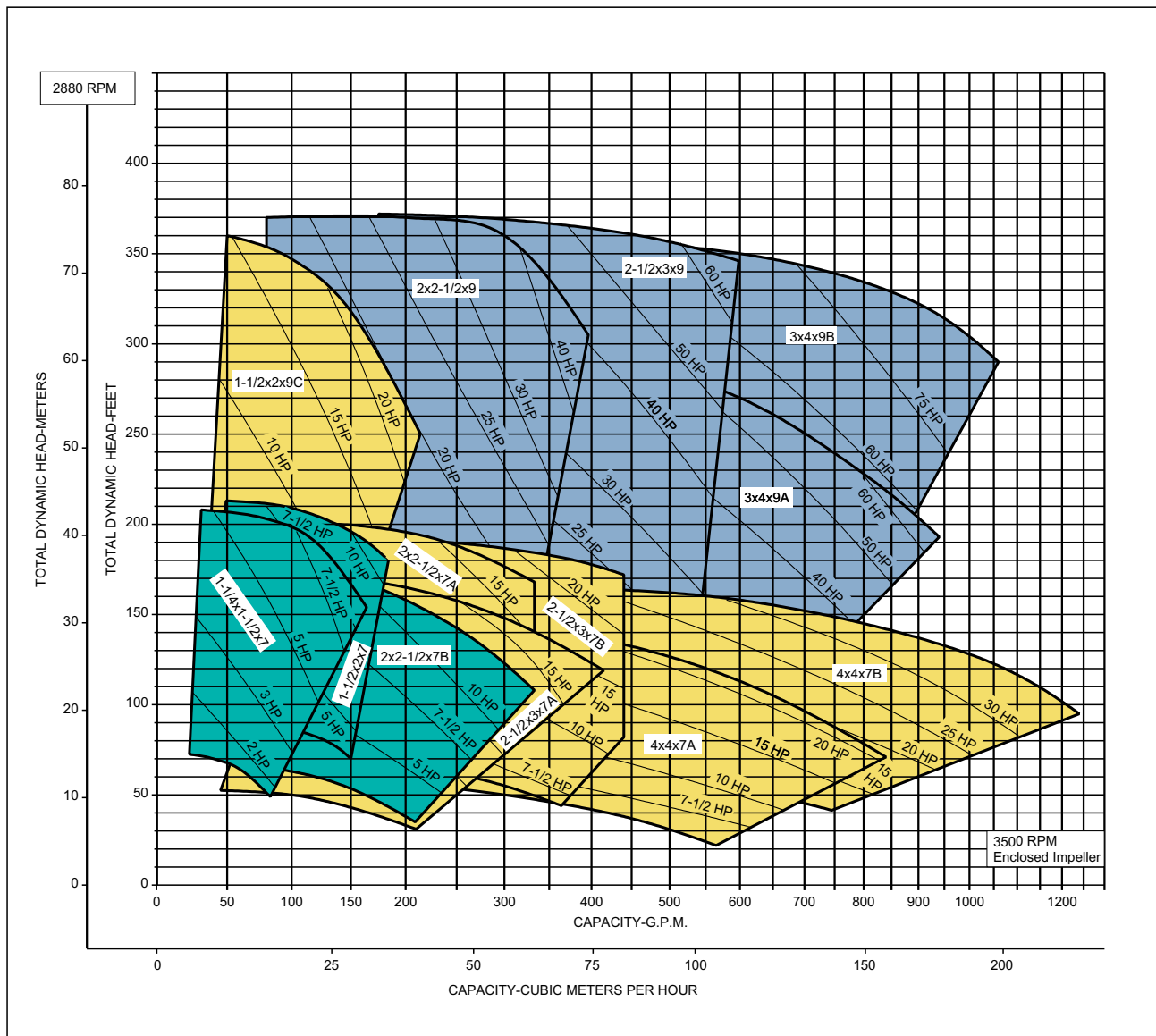
360 Range Charts

3500 RPM

INDIVIDUAL PERFORMANCE CURVES SHOULD BE CHECKED FOR FINAL SELECTION. FOR SELECTIONS NOT SHOWN ON THIS CHART PLEASE REFER TO THE FACTORY.

- POWER FRAME NO. 1
- POWER FRAME NO. 2
- POWER FRAME NO. 3

| | | | |
|-----------------------|---------------|-----------------|-----|
| MAXIMUM HORSEPOWER | CLOSE | OPEN DRIP PROOF | 60 |
| | COUPLED | TE & EX PR | 50 |
| | FRAME MOUNTED | | 100 |



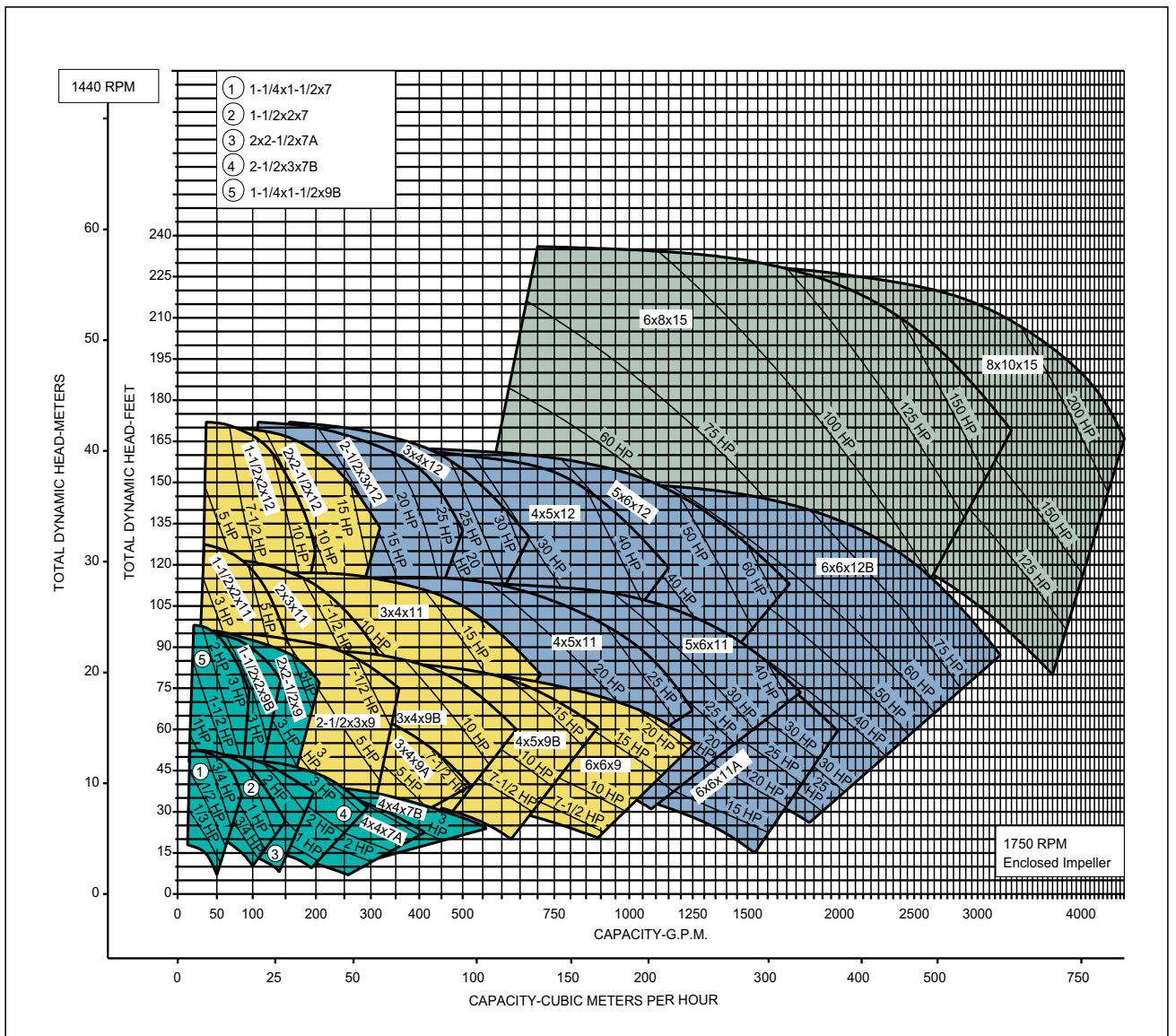
360 Range Charts

1750 RPM

INDIVIDUAL PERFORMANCE CURVES SHOULD BE CHECKED FOR FINAL SELECTION. FOR SELECTIONS NOT SHOWN ON THIS CHART PLEASE REFER TO THE FACTORY.

- POWER FRAME NO. 1
- POWER FRAME NO. 2
- POWER FRAME NO. 3
- POWER FRAME NO. 21

| | | | |
|--------------------|---------------|-----------------|-----|
| MAXIMUM HORSEPOWER | CLOSE COUPLED | OPEN DRIP PROOF | 50 |
| | FRAME MOUNTED | TE & EX PR | 50 |
| | | | 250 |



Engineering Details

Power Frame

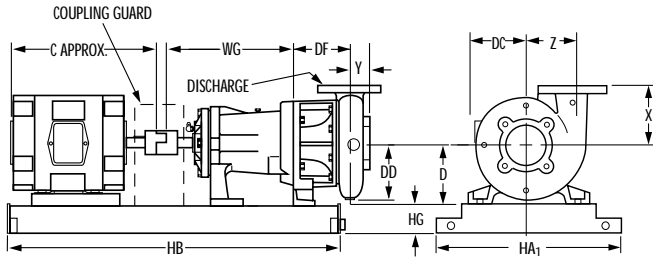
| Pump Size | Model 344A | | | Model 364A | | | | |
|--------------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|-------|
| | 3500 R.P.M. | 1750 R.P.M. | 1150 R.P.M. | 3500 R.P.M. | 1750 R.P.M. | | 1150 R.P.M. | |
| | | | | ENC. | ENC. | SEMI. | ENC. | SEMI. |
| 1-1/4 x 1-1/2 x 7 | 1 | 1 | * | 1 | 1 | 1 | * | * |
| 1-1/4 x 1-1/2 x 9B | * | 1 | * | * | 1 | * | * | * |
| 1-1/2 x 2 x 7 | 1 | 1 | * | 1 | 1 | 1 | * | * |
| 1-1/2 x 2 x 9A | * | 1 | * | * | 1 | 2 | * | 1 |
| 1-1/2 x 2 x 9B | * | 1 | * | * | 1 | * | * | * |
| 1-1/2 x 2 x 9C | 2 | 1 | * | 2 | 1 | * | * | * |
| 1-1/2 x 2 x 11 | 3 | 2 | 2 | * | 2 | * | 2 | * |
| 1-1/2 x 2 x 12 | * | 2 | 2 | * | 2 | 3 | 2 | 2 |
| 2 x 2-1/2 x 7A | 2 | 1 | * | 2 | 1 | 1 | * | * |
| 2 x 2-1/2 x 7B | 1 | 1 | * | 1 | 1 | * | * | * |
| 2 x 2-1/2 x 9 | 3 | 1 | * | 3 | 1 | * | * | * |
| 2 x 2-1/2 x 12 | * | 2 | 2 | * | 2 | * | 2 | * |
| 2 x 3 x 11 | * | 2 | 2 | * | 2 | * | 2 | * |
| 2-1/2 x 3 x 7A | 1 | 1 | * | 2 | 1 | 1 | * | * |
| 2-1/2 x 3 x 7B | 2 | 1 | * | 2 | 1 | * | * | * |
| 2-1/2 x 3 x 9 | 3 | 1 | * | 3 | 2 | 2 | * | 2 |
| 2-1/2 x 3 x 12 | * | 2 | 2 | * | 3 | 3 | 2 | 2 |
| 3 x 4 x 9A | 3 | 1 | * | 3 | 2 | * | * | * |
| 3 x 4 x 9B | 3 | 1 | * | 3 | 2 | * | * | * |
| 3 x 4 x 11 | * | 2 | 2 | * | 2 | * | 2 | * |
| 3 x 4 x 12 | * | 3 | 2 | * | 3 | 3 | 2 | 2 |
| 4 x 4 x 7A | 2 | 1 | * | 2 | 1 | * | * | * |
| 4 x 4 x 7B | 2 | 1 | * | 2 | 1 | 1 | * | * |
| 4 x 5 x 9A | 3 | 2 | * | 3 | 2 | * | * | * |
| 4 x 5 x 9B | * | 2 | * | * | 2 | 2 | * | 2 |
| 4 x 5 x 11 | * | 2 | 2 | * | 3 | * | 2 | * |
| 4 x 5 x 12 | * | 3 | 2 | * | 3 | 3 | 2 | 2 |
| 5 x 6 x 11 | * | 3 | 2 | * | 3 | * | 2 | * |
| 5 x 6 x 12 | * | 3 | 2 | * | 3 | 3 | 3 | 2 |
| 6 x 6 x 9 | * | 2 | 2 | * | 2 | 2 | 2 | 2 |
| 6 x 6 x 11 | * | 3 | 2 | * | 3 | * | 2 | * |
| 6 x 6 x 11A | * | 3 | 2 | * | 3 | * | 2 | * |
| 6 x 6 x 12B | * | 3 | 3 | * | 3 | * | 3 | * |
| 6 x 6 x 12B | * | 3 | * | * | 3 | * | * | * |
| 6 x 8 x 15 | * | * | * | * | 21 | * | 21 | * |
| 8 x 10 x 15 | * | * | * | * | 21 | * | 21 | * |

* = Not Available

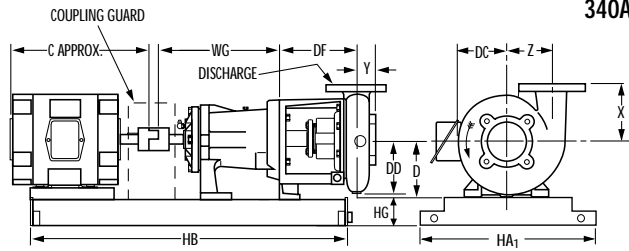
ENC.=Enclosed Impeller

SEMI.=Semi Open Impeller (Optional)

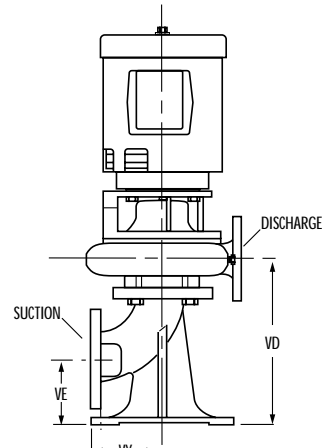
Engineering and Dimension Details



340A Series



360A Series

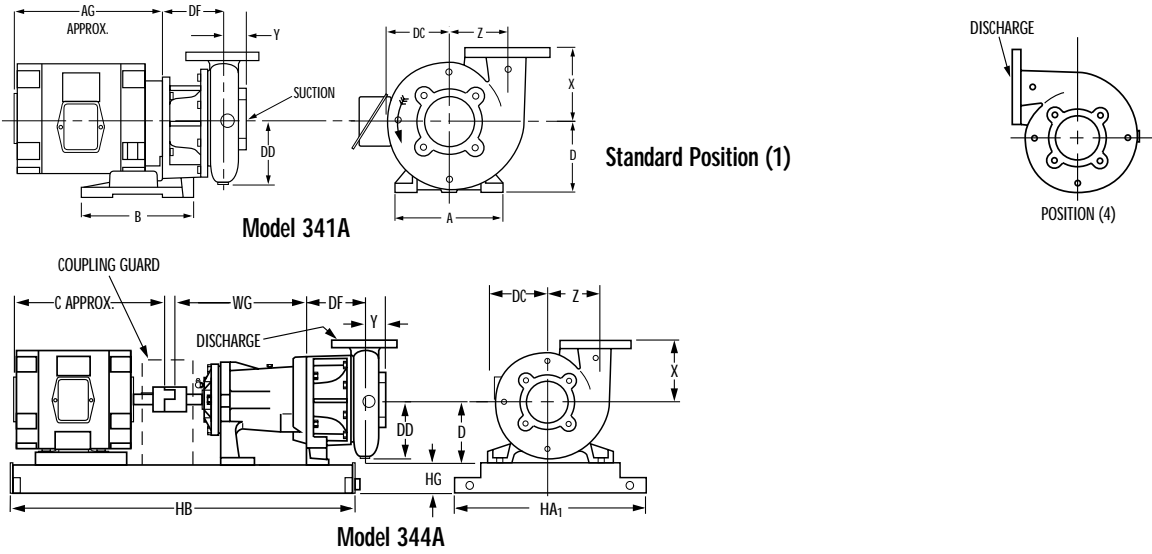


342A/362A Series

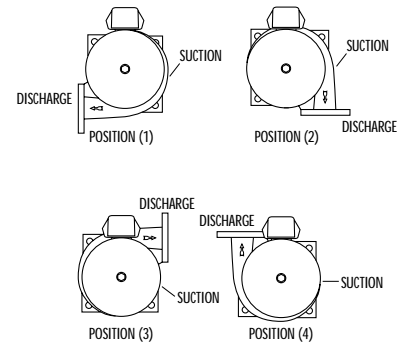
| Pumps with Threaded Connections | | | | | | | 340A Series | | | 360A Series | | 342A/362A | | | |
|--|---------|-----------|-------|---------|---------|---------|-------------|----------------------------|---------------------------------|---------------------------------|----------------------------|-------------------------------------|----------------|-------|-------|
| Discharge | Suction | Case Bore | X | Y | Z | DC | DD | DF | | | DF | | Vertical Pumps | | |
| | | | | | | | | Frame 1 143JM- 215JM | Frame 2 or 3 254JM- 256JM | Frame 2 or 3 284JM- 326JM | Frame 1 143JP- 184JP | Frame 2, 3 or 21 213JP- 325JP | VD | VE | VY |
| 1-1/4 | 1-1/2 | 7 | 5-1/4 | 2-7/16 | 4-3/16 | 4-15/16 | 5-3/16 | 4-3/4 | N/A | N/A | 7-13/16 | N/A | 9-3/8 | 3-3/4 | 4 |
| 1-1/4 | 1-1/2 | 9B | 6-3/8 | 2-9/16 | 5-3/8 | 6-3/16 | 6-3/8 | 4-11/16 | N/A | N/A | 7-3/4 | N/A | 9-3/8 | 3-3/4 | 4 |
| 1-1/2 | 2 | 7 | 5-3/8 | 2-1/2 | 4-5/16 | 5-1/8 | 5-3/8 | 4-13/16 | N/A | N/A | 7-7/8 | N/A | 10-5/16 | 4-1/8 | 4-1/2 |
| 1-1/2 | 2 | 9 | 6-3/4 | 2-5/8 | 5-1/2 | 6-5/16 | 6-9/16 | 4-3/4 | 5-3/4 | 5-3/4 | 7-13/16 | 8-5/8 | 10-5/16 | 4-1/8 | 4-1/2 |
| 1-1/2 | 2 | 11 | 9 | 2-13/16 | 6-1/8 | 7-1/16 | 7-1/4 | N/A | 5-3/4 | 5-3/4 | N/A | 8-5/8 | 10-1/2 | 4-1/8 | 4-1/2 |
| 1-1/2 | 2 | 12 | 7-3/4 | 2-3/4 | 7-1/16 | 8 | 8-1/4 | N/A | 5-7/8 | N/A | N/A | 8-3/4 | 10-7/16 | 4-1/8 | 4-1/2 |
| Pumps with Ansi Standard 125 Lb. Flanged Connections | | | | | | | | | | | | | | | |
| 2 | 2-1/2 | 7 | 5-5/8 | 1-7/8 | 4-9/16 | 5-3/8 | 5-13/16 | 4-15/16 | 5-15/16 | N/A | 8 | 8-13/16 | 11-7/16 | 4-1/2 | 5 |
| 2 | 2-1/2 | 9 | 7 | 1-7/8 | 5-11/16 | 6-1/2 | 6-7/8 | 4-7/8 | 5-7/8 | 5-7/8 | 7-15/16 | 8-3/4 | 11-7/16 | 4-1/2 | 5 |
| 2 | 2-1/2 | 12 | 8 | 1-7/8 | 7-3/16 | 8-3/16 | 8-1/2 | 5 | 6 | N/A | N/A | 8-7/8 | 11-7/16 | 4-1/2 | 5 |
| 2 | 3 | 11 | 8 | 2-3/8 | 6-1/2 | 7 | 7-3/8 | 5-1/8 | 6-1/8 | N/A | N/A | 8-5/8 | 12-7/8 | 5 | 5-1/2 |
| 2-1/2 | 3 | 7 | 5-7/8 | 2 | 4-13/16 | 5-13/16 | 6-1/4 | 5-1/16 | 6-1/16 | N/A | 8-1/8 | 8-15/16 | 12-9/16 | 5 | 5-1/2 |
| 2-1/2 | 3 | 9 | 7-1/4 | 2 | 5-15/16 | 6-3/4 | 7-1/4 | 5 | 6 | 6 | 8-1/16 | 8-7/8 | 12-9/16 | 5 | 5-1/2 |
| 2-1/2 | 3 | 12 | 8-1/4 | 2 | 7-3/8 | 8-3/8 | 8-3/4 | 5-1/8 | 6-1/8 | N/A | N/A | 9 | 12-9/16 | 5 | 5-1/2 |
| 3 | 4 | 9 | 7-1/2 | 2-1/8 | 6-1/8 | 6-7/8 | 7-7/16 | 5-1/8 | 6-1/8 | 6-1/8 | 8-3/16 | 9 | 14-11/16 | 6 | 6-1/2 |
| 3 | 4 | 11 | 9 | 2-3/4 | 7 | 7-9/16 | 8-3/16 | 5-7/16 | 6-7/16 | N/A | N/A | 9-1/8 | 15-1/4 | 6 | 6-1/2 |
| 3 | 4 | 12 | 8-1/2 | 2-1/8 | 7-9/16 | 8-7/16 | 8-15/16 | 5-1/2 | 6-1/2 | 6-1/2 | N/A | 9-1/8 | 14-11/16 | 6 | 6-1/2 |
| 4 | 4 | 7 | 6-1/2 | 2-1/2 | 5-1/2 | 6-7/16 | 7-5/16 | 5-7/16 | 6-7/16 | 6-7/16 | 8-1/2 | 9-5/16 | 14-15/16 | 6 | 6-1/2 |
| 4 | 5 | 9A | 7-1/4 | 3-1/8 | 5-3/4 | 6-11/16 | 7-3/8 | 5-1/4 | 6-1/4 | 6-1/4 | N/A | 9-1/8 | 17-3/16 | 6-1/2 | 7-1/2 |
| 4 | 5 | 9B | 7-3/4 | 2-5/8 | 6-5/8 | 8-1/16 | 8-11/16 | 5-3/8 | 6-3/8 | N/A | N/A | 9-1/4 | 16-11/16 | 6-1/2 | 7-1/2 |
| 4 | 5 | 11 | 9 | 3 | 7-1/4 | 7-15/16 | 8-11/16 | 5-5/8 | 6-5/8 | 6-5/8 | N/A | 9-1/4 | 17 | 6-1/2 | 7-1/2 |
| 4 | 5 | 12 | 8-3/4 | 2-5/8 | 7-15/16 | 8-7/8 | 9-9/16 | N/A | 6-3/4 | 6-3/4 | N/A | 9-3/8 | 16-11/16 | 6-1/2 | 7-1/2 |
| 5 | 6 | 11 | 9 | 3-1/8 | 8-1/16 | 8-11/16 | 10-1/8 | 6 | 7 | 7 | N/A | 9-5/8 | 18-1/8 | 7 | 8 |
| 5 | 6 | 12 | 9 | 2-7/8 | 8-5/16 | 9-1/4 | 10-1/8 | N/A | 7 | 7 | N/A | 9-5/8 | 17-7/8 | 7 | 8 |
| 6 | 6 | 9 | 8-1/4 | 2-3/4 | 7 | 8 | 9 | 5-1/2 | 6-1/2 | 6-1/2 | N/A | 9-3/8 | 17-13/16 | 7 | 8 |
| 6 | 6 | 11 | 9-1/4 | 3-1/8 | 8-11/16 | 9-11/16 | 10-13/16 | N/A | 7-1/4 | 7-1/4 | N/A | 9-7/8 | 18-1/4 | 7 | 8 |
| 6 | 6 | 11A | 9-1/4 | 3-1/8 | 8-11/16 | 9-11/16 | 10-13/16 | N/A | 7-1/4 | 7-1/4 | N/A | 9-7/8 | 18-1/4 | 7 | 8 |
| 6 | 6 | 12B | 9-1/4 | 3-1/8 | 8-11/16 | 9-11/16 | 10-13/16 | N/A | 7-1/4 | 7-1/4 | N/A | 9-7/8 | 18-1/4 | 7 | 8 |
| 6 | 8 | 15 | 18 | 6 | — | 10-7/16 | 14-1/2 | N/A | N/A | N/A | N/A | 10-3/16* | N/A | N/A | N/A |
| 8 | 10 | 15 | 19 | 6 | — | 11 | 14-1/2 | N/A | N/A | N/A | N/A | 10-5/16* | N/A | N/A | N/A |

* Power Frame 21 Only

340A Series Engineering and Dimension Details



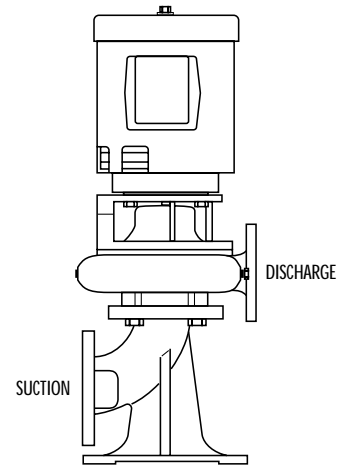
| Pump Model | Base Number | Weight Lbs. | HA ₁ | HB | HG | Power Frame | | | | | |
|------------|-------------|-------------|-----------------|--------|-------|------------------|-----------|----|---------|----------|----------|
| | | | | | | Weight in Pounds | 1 | 2 | 3 | | |
| 344A | 4 | 49 | 17-1/4 | 30-1/2 | 3 | D | Case Bore | 7 | 5-1/4 | 6-1/4 | — |
| | 5 | 59 | 17-1/4 | 36-1/2 | 3 | | | 9 | 6-1/4 | 7 | 7 |
| | 7 | 82 | 20-1/2 | 36-1/2 | 3 | | | 11 | — | 7 | 7 |
| | 8 | 96 | 20-1/2 | 42-1/2 | 3 | | | 12 | — | 7 | 7 |
| | 11 | 164 | 26-3/4 | 46-1/2 | 4 | | | WG | 10-5/16 | 13-13/16 | 13-13/16 |
| | 15 | 291 | 30-3/4 | 54-1/2 | 4-1/2 | | | | | | |



| Pump Model | Motor Frame | Horsepower | | | Mtr. Wgt. Lbs. | D | Pump Model 341A | | | | Base Number | | |
|---------------------------|-------------|------------|----------|----------|----------------|-------|-----------------|--------|----|-----|-------------|-----|-----|
| | | 3500 RPM | 1750 RPM | 1150 RPM | | | A | B | AG | C | | | |
| 344A | 56 | — | 1/2-3/4 | — | 50 | 5-1/4 | — | — | — | 12 | 4 | N/A | N/A |
| 341A 342A & 344A | 143T | 1-1/2 | 1 | 3/4 | 30 | 5-1/4 | 9-3/4 | 8-5/8 | 10 | 12 | 4 | N/A | N/A |
| | 145T | 2-3 | 1-1/2-2 | 1 | 35 | 5-1/4 | 9-3/4 | 8-5/8 | 11 | 13 | 4 | 7 | N/A |
| | 182T | 5 | 3 | 1-1/2 | 45 | 5-1/4 | 9-3/4 | 8-5/8 | 11 | 13 | 4 | 7 | N/A |
| | 184T | 7-1/2 | 5 | 2 | 50 | 5-1/4 | 9-3/4 | 8-5/8 | 12 | 14 | 4 | 7 | N/A |
| | 213T | 10 | 7-1/2 | 3 | 120 | 5-1/4 | 10-1/2 | 7-1/2 | 14 | 16 | 4 | 7 | N/A |
| | 215T | 15 | 10 | 5 | 144 | 5-1/4 | 10-1/2 | 9 | 15 | 18 | 5 | 7 | N/A |
| | 254T | 20 | 15 | 7-1/2 | 217 | 6-1/4 | 12-1/2 | 10-3/4 | 17 | 21 | 7 | 8 | 8 |
| | 256T | 25 | 20 | 10 | 246 | 6-1/4 | 12-1/2 | 12-1/2 | 19 | 23 | N/A | 8 | 8 |
| | 284T | — | 25 | 15 | 320 | 7 | 13-3/4 | 11-1/2 | 19 | 24 | N/A | 8 | 8 |
| | 284TS | 30 | — | — | 320 | 7 | 13-3/4 | 11-1/2 | 19 | 22 | N/A | 8 | 8 |
| | 286T | — | 30 | 20 | 351 | 7 | 13-3/4 | 13 | 21 | 25 | N/A | 8 | 8 |
| | 286TS | 40 | — | — | 351 | 7 | 13-3/4 | 13 | 21 | 24 | N/A | 8 | 8 |
| | 324T | — | 40 | 25 | 442 | 8 | 16 | 14 | 22 | 26 | N/A | 11 | 11 |
| 324TS | 50 | — | — | 442 | 8 | 16 | 14 | 22 | 25 | N/A | 11 | 11 | |
| 326T | — | 50 | 30 | 485 | 8 | 16 | 15-1/2 | 23 | 28 | N/A | 11 | 11 | |
| 326TS | 60 | — | — | 485 | 8 | 16 | 15-1/2 | 23 | 26 | N/A | 11 | 11 | |
| 344A | 364T | — | — | 40 | 540 | 9 | 18 | 15-1/2 | 23 | 29 | N/A | 11 | 11 |
| | 364TS | 75 | 60 | — | 540 | 9 | 18 | 15-1/2 | 23 | 27 | N/A | 11 | 11 |
| | 365TS | 100 | 75 | — | 590 | 9 | 18 | 15-1/2 | 24 | 28 | N/A | 11 | 11 |
| | 404TS | 125 | 100 | — | 690 | 10 | 20 | 16-1/4 | 26 | 30 | N/A | 15 | 15 |

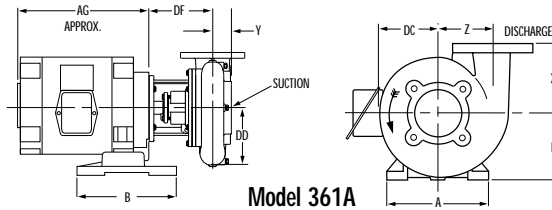
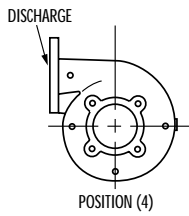
Notes:

- Dimensions and weights are approximate.
- All dimensions are in inches and may vary ±1/4" (6).
- Frame sizes, "C" and "AG", dimension and motor weight are for open drip-proof motors only.
- Conduit box is shown in approximate position. Dimensions are not specified as they vary with each motor manufacturer.
- Not for construction purposes unless certified.
- Discharge positions No. 2 and 3 are not available on Models 341A, 361A, 344A and 364A. Position No. 1 is furnished as standard unless otherwise specified.
- When two "D" dimensions are indicated, always use the larger figure.
- Power frame selection for 344A pumps can be made from the range charts.
- Model 341A and 342A have "JM" motor frames. Model 344A has "T" frame motor.

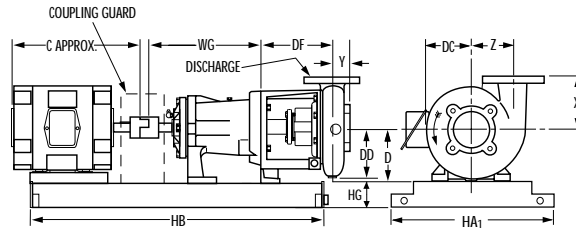


Model 342A

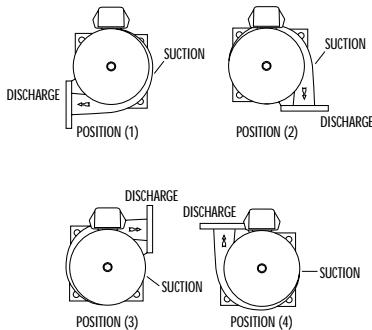
360A Series Engineering and Dimension Details



Standard Position (1)

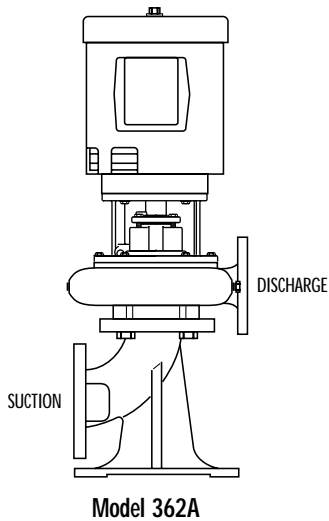


Model 364A



| Pump Model | Base Number | Weight Lbs. | HA ₁ | HB | HG | Power Frame Weight in Pounds | 1 | 2 | 3 | 21 | |
|------------|-------------|-------------|-----------------|--------|-------|------------------------------|---------|----------|----------|-----|--------|
| 364A | 4 | 49 | 17-1/4 | 30-1/2 | 3 | D Case Bore | 36 | 82 | 87 | 163 | |
| | 5 | 59 | 17-1/4 | 36-1/2 | 3 | | 7 | 5-1/4 | 6-1/4 | — | — |
| | 7 | 82 | 20-1/2 | 36-1/2 | 3 | | 9 | 6-1/4 | 7 | 7 | — |
| | 8 | 96 | 20-1/2 | 42-1/2 | 3 | | 11 | — | 7 | 7 | — |
| | 9 | 109 | 20-1/2 | 48-1/2 | 3 | | 12 | — | 7 | 7 | — |
| | 11 | 164 | 26-3/4 | 46-1/2 | 4 | WG | 10-5/16 | 13-13/16 | 13-13/16 | — | |
| | 12 | 221 | 26-3/4 | 54-1/2 | 4 | | 15 | — | — | — | 14-1/2 |
| | 15 | 291 | 30-3/4 | 54-1/2 | 4-1/2 | | | | | | |
| | 16 | 345 | 30-3/4 | 64-1/2 | 4-1/2 | | | | | | |
| | 17 | 399 | 30-3/4 | 74-1/2 | 4-1/2 | | | | | | |

| Pump Model | Motor Frame | Horsepower | | | Mtr. Wgt. Lbs. | D | Pump Model 361A | | | C | Base Number | | | |
|---------------------------|-------------|------------|----------|----------|----------------|-------|-----------------|--------|----|-----|-------------|-----|-----|-----|
| | | 3500 RPM | 1750 RPM | 1150 RPM | | | A | B | AG | | 4 | 7 | 8 | 11 |
| 364A | 56 | — | 1/2-3/4 | — | 50 | 5-1/4 | — | — | — | 12 | 4 | N/A | N/A | N/A |
| 361A 362A & 364A | 143T | 1-1/2 | 1 | 3/4 | 30 | 5-1/4 | 9-3/4 | 8-5/8 | 10 | 12 | 4 | N/A | N/A | N/A |
| | 145T | 2-3 | 1-1/2-2 | 1 | 35 | 5-1/4 | 9-3/4 | 8-5/8 | 11 | 13 | 4 | 7 | N/A | N/A |
| | 182T | 5 | 3 | 1-1/2 | 45 | 5-1/4 | 9-3/4 | 8-5/8 | 11 | 13 | 4 | 7 | N/A | N/A |
| | 184T | 7-1/2 | 5 | 2 | 50 | 5-1/4 | 9-3/4 | 8-5/8 | 12 | 14 | 4 | 7 | N/A | N/A |
| | 213T | 10 | 7-1/2 | 3 | 120 | 5-1/4 | 10-1/2 | 7-1/2 | 14 | 16 | 4 | 7 | 7 | N/A |
| | 215T | 15 | 10 | 5 | 144 | 5-1/4 | 10-1/2 | 9 | 15 | 18 | 5 | 7 | 7 | N/A |
| | 254T | 20 | 15 | 7-1/2 | 217 | 6-1/4 | 12-1/2 | 10-3/4 | 17 | 21 | N/A | 8 | 8 | N/A |
| | 256T | 25 | 20 | 10 | 246 | 6-1/4 | 12-1/2 | 12-1/2 | 19 | 23 | N/A | 8 | 8 | N/A |
| | 284T | — | 25 | 15 | 320 | 7 | 13-3/4 | 11-1/2 | 19 | 24 | N/A | 8 | 8 | N/A |
| | 284TS | 30 | — | — | 320 | 7 | 13-3/4 | 11-1/2 | 19 | 22 | N/A | 8 | 8 | N/A |
| | 286T | — | 30 | 20 | 351 | 7 | 13-3/4 | 13 | 21 | 25 | N/A | 9 | 9 | 16 |
| | 286TS | 40 | — | — | 351 | 7 | 13-3/4 | 13 | 21 | 24 | N/A | 8 | 8 | N/A |
| | 324T | — | 40 | 25 | 442 | 8 | 16 | 14 | 22 | 26 | N/A | 11 | 11 | 16 |
| | 324TS | 50 | — | — | 442 | 8 | 16 | 14 | 22 | 25 | N/A | 11 | 11 | N/A |
| 326T | — | 50 | 30 | 485 | 8 | 16 | 15-1/2 | 23 | 28 | N/A | 11 | 11 | 16 | |
| 326TS | 60 | — | — | 485 | 8 | 16 | 15-1/2 | 23 | 26 | N/A | 11 | 11 | N/A | |
| 364A | 364T | — | — | 40 | 540 | 9 | 18 | 15-1/2 | 23 | 29 | N/A | 12 | 12 | 16 |
| | 364TS | 75 | 60 | — | 540 | 9 | 18 | 15-1/2 | 23 | 27 | N/A | 11 | 11 | 16 |
| | 365T | — | — | 50 | 590 | 9 | 18 | 15-1/2 | 24 | 28 | N/A | N/A | N/A | 16 |
| | 365TS | 100 | 75 | — | 590 | 9 | 18 | 15-1/2 | 24 | 28 | N/A | 11 | 11 | 16 |
| | 404T | — | 100 | 60 | 690 | 10 | 20 | 16-1/4 | 26 | 33 | N/A | N/A | N/A | 17 |
| | 404TS | 125 | 100 | — | 690 | 10 | 20 | 16-1/4 | 26 | 30 | N/A | 15 | 15 | 17 |
| | 405T | — | — | 75 | 780 | 10 | 20 | 17-3/4 | 27 | 34 | N/A | N/A | N/A | 17 |
| | 405TS | — | 125 | — | 780 | 10 | 20 | 17-3/4 | 27 | 31 | N/A | N/A | N/A | 17 |
| | 444TS | — | 150 | — | 950 | 11 | 22 | 18-1/2 | 30 | 34 | N/A | N/A | N/A | 17 |
| | 445TS | — | 200 | — | 1000 | 11 | 22 | 20-1/2 | 32 | 36 | N/A | N/A | N/A | 17 |



Notes:

- Dimensions and weights are approximate.
- All dimensions are in inches and may vary $\pm 1/4"$ (6).
- Frame sizes, "C" and "AG", dimension and motor weight are for open drip-proof motors only.
- Conduit box is shown in approximate position. Dimensions are not specified as they vary with each motor manufacturer.
- Not for construction purposes unless certified.
- Discharge positions No. 2 and 3 are not available on Models 341A, 361A, 344A and 364A. Position No. 1 is furnished as standard unless otherwise specified.
- When two "D" dimensions are indicated, always use the larger figure.
- Power frame selection for 364A pumps can be made from the range charts.
- Model 361A and 362A have "JP" motor frames. Model 364A has "T" frame motor.

Engineering Specifications

Flexible-Close Coupled Pumps

The contractor shall furnish (and install as shown on the plans) Aurora Model (341A horizontal close coupled) (342A vertical close coupled) (344A horizontal flexible coupled) back pull out centrifugal pumps size ...x...x... of (standard fitted) (bronze fitted) (all iron) construction.

The contractor shall furnish (and install as shown on the plans) Aurora Model (361A horizontal close coupled) (362A vertical close coupled) (364A horizontal flexible coupled) back pull out centrifugal pumps size ...x...x... of (bronze fitted) (all bronze) (all iron) (stainless steel) construction. Each pump is to be furnished with a (standard) (water cooled) stuffing box with (packing) (...) (see options).

Each pump shall have a capacity of ...GPM at ...ft. total head, with a temperature of ...°F, ... specific gravity. Each pump is to be

furnished with a mechanical seal with all metal parts to be 303 stainless steel with "Buna-N" elastomers, Ni-Resist seat, and carbon washer. The unit must be equipped with (bronze) (stainless steel) keylocked shaft sleeve that extends the length of the seal box. The pump shaft extension shall be "O" ring sealed from the pumped liquid. Pump shall have a case wearing ring (impeller wearing rings). Impellers to be vacuum cast, dynamically balanced, and keylocked to the shaft.

Flexible Coupled-Frame Mounted (344A-364A)

Pump and motor are to be mounted on a common (fabricated steel drip rim) (steel) baseplate. The shaft is to be steel, installed in a cast iron power frame. Pumps shall have a shaft design for .002" deflection at the seal face with the pump running under maximum load condition. (Grease) (oil) (permanently lubricated) ball bearings, having a 3 year minimum

life (AFBMA B₁₀) under the maximum condition of load. Bearings to be protected by separate oil seals and slingers. The pump shall be flexible coupled to a standard horizontal NEMA ... HP ... phase ... Hertz ... volts ... RPM (open drip proof) (totally enclosed fan cooled) (explosion-proof) motor. Alignment shall be checked in accordance with the standards of the Hydraulic Institute after installation and there shall be no strain transmitted to the pumps.

Close Coupled (341A-361A) (342A-362A)

Each pump is to be close coupled to a standard HI-NEMA-JM (340A Series) JP (360A Series). HP ... phase ... Hertz ... volt ... RPM (drip-proof) (totally enclosed) (explosion-proof) motor. Model 341A and 361A in motor frame sizes up to 184JM shall be supported by a separate support foot on the close coupled pump bracket.



NOTE: Aurora Pump reserves the right to make revisions to its products and their specifications, and to this bulletin and related information, without notice.

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AP-340A/360A / Rev. J 1.01 (10M 1.01)